



United States Environmental Protection Agency
Washington, D. C. 20460

NPDES Compliance Inspection Report

Form Approved
OMB No. 2040-0003
Approval Expires 7-31-85

Section A: National Data System Coding

Transaction Code 1A 25 NPDES 3IL0038709 11 yr/mo/day 12871021 17 Inspection Type 18C Inspector 195 Fac Type 202

Remarks

21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66

Reserved 67 68 69 Facility Evaluation Rating 704 BI 71D QA 72M Reserved 73 74 75 76 77 78 79 80

Section B: Facility Data

Name and Location of Facility Inspected
Pfizer Pigments, Inc.
2001 Lynch Ave.
East St. Louis IL

Entry Time ☒ AM ☐ PM Permit Effective Date 5-31-84

Exit Time/Date Permit Expiration Date 4-15-89

Name(s) of On-Site Representative(s)
Jeff Carlton

Title(s)
Safety/Envir. Engineer

Phone No(s)
271-4700

Name, Address of Responsible Official
Roger Rader

Title
Plant Manager

Phone No.
618-271-4700

Contacted
☒ Yes ☐ No

Section C: Areas Evaluated During Inspection

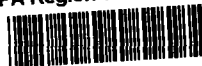
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

<u>S</u> Permit	<u>S</u> Flow Measurement	<u>N/A</u> Pretreatment	<u>S</u> Operations & Maintenance
<u>S</u> Records/Reports	<u>S</u> Laboratory	<u>N/A</u> Compliance Schedules	<u>N/A</u> Sludge Disposal
<u>S</u> Facility Site Review	<u>S</u> Effluent/ Discharge	<u>S</u> Self-Monitoring Program	Other:

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

RECEIVED
Compliance Assurance Section
FEB 22 1988
Environmental Protection Agency
STATE OF ILLINOIS

EPA Region 5 Records Ctr.



390918

Name(s) and Signature(s) of Inspector(s)
J. N. Mahlandt, PE

Agency/Office/Telephone
IEPA Region 6 618-345-6220

Date
2-18-88

Signature of Reviewer
Robert L. Schleuger, P.E.

Agency/Office
IEPA/KILLINSVILLE/618-345-6220

Date
2/19/88

Regulatory Office Use Only

Action Taken

Date

Compliance Status
☐ Noncompliance
☐ Compliance

PFIZER, INC. COOLING WATER
COMPLIANCE SAMPLING INSPECTION

Date: October 21, 1987

Interviewed: Mr. Jeff Carlton, Environmental Engineer

NPDES Permit: IL0038709 (modified 7-21-86)

Basin Code: JNG-02-163

RECEIVED
Compliance Assurance Section
FEB 22 1988
Environmental Protection Agency
STATE OF ILLINOIS

FINDINGS

This permit covers the discharge of approximately 2.2 mgd (1540 gpm) of non-contact cooling water to the storm sewer system tributary to Schoenberger Creek. Pfizer also discharges to the East St. Louis collection system via three sewer connections along Lynch Avenue. Pre-treatment is provided for process wastewater and consists of neutralization and sedimentation. This system was in operation, however, it was not viewed in detail since it is not part of the subject permit.

The source of the cooling water is three wells located toward the rear of the plant property. These are noted as #12, #14, and #15 with capacities of approximately 500, 1000, and 1550 gpm, respectively. No other water source is included in the cooling loop. During the visit, wells #12 & #14 were in service.

This water is distributed to the Yellow and the Kroma buildings and then returned through various collection tanks and pumps to the main collection tank. Conductivity probes are also provided at various points in this loop. Mr. Carlton commented that the corporate appropriation has been made and the Magnetics building has been added to the system. This was done this past summer.

Following the final collection tank, the returned flow passes through a Parshall flume and is discharged to the storm sewer. It is at the flume that the required grab sampling is done. During the inspection the flow was clear, however, shortly after collection the oxidation from the ferrous to the ferric state became evident. Attached is a copy of laboratory report sheet B717126, which indicates that the daily maximum for TSS was exceeded by one mg/l (38 vs. 37). On October 19th, another effluent grab sample was taken and this had a 46 mg/l result. This is noted on laboratory report sheet B717125. The other permit parameters were in compliance on both sample results. These results were received in this office on February 16th.

During the compliance inspection a grab sample was also collected from the two operating wells. These results are noted on the attached laboratory report sheets B717127 and B717128. On both results the iron level is below the effluent limitation while the TSS results are near or above. In all sampling at this facility, the TSS result is a function of time due to the ferrous to ferric conversion.

RECORDS & REPORTS

The cooling water discharge is routinely sampled with the water transported and analyzed by Environmental Analysis of Florissant, Missouri. These samples are reportedly analyzed the same day and if a problem is noted, Pfizer is immediately notified by telephone. Analysis records are maintained by Mr. Carlton and the monthly discharge monitoring report is received in a timely manner. Notices of non-compliance have been received when required.

Prior to July 31, 1987, Pollution Control Board Order 85-107 was in effect. This variance allowed a daily maximum of 34 mg/l for iron and 98 mg/l for TSS. For the first seven months of 1987, the reported DMR average maximum values were Fe - 18.1, Oil - 2.5, and TSS - 40. For the next three months, these values were Fe - 16.9, Oil - 2.2, and TSS - 22. The overall 1988 averages (Jan. - Oct.) were Fe - 17.7, Oil - 2.4, and TSS - 34. A 6.4 to 8.2 pH range was reported.

SUMMARY

The Pfizer cooling water discharge routinely meets the permit limitations for oil, pH, and iron. Based on the Company's reports, compliance has also been achieved for TSS. Even though our previously noted results show permit non-compliance, they are not indicative of the situation. At the time of discharge, the effluent on October 21st had a TSS of approximately 23 while on October 19th the effluent TSS was approximately 32.

This CSI was scheduled as part of a biomonitoring study on the cooling water discharge. This effort was cut short due to the receiving stream showing a toxic effect on the control species. No effluent toxicity was reported on the daphnia nor the fathead minnow. An inhibition was reported for algal growth. The receiving stream above the Pfizer discharge has for years been used as an open dump. It is silted and choked with garbage and refuse.



J. N. Mahlandt, P.E.

JNM:cas/0060w
Attachments

cc: DWPC - Collinsville
cc: DWPC/CAS - Gary Whiteside

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : B717126
SAMPLING POINT DESC. : PFIZER INC

SUBMITTING SOURCE # : JNG 16302 SITE # :
DATE COLLECTED : 871021 TIME COLLECTED : 1000 SAMPLING PROGRAM : IN

COLLECTED BY : JNM DELIVERED BY : UPS

COMMENTS :

FUNDING CODE : WPC6 AGENCY ROUTING : CV UNIT CODE :
SAM TYPE CODE : CLGW SAMPLE PURPOSE CODE : X REPORTING INDICATOR : 9

DATE RECEIVED : 871022 TIME RECEIVED : 1100 RECEIVED BY : MAD
LAB OBSERVATIONS : TRIP BL SAM# : SS/10/
SUPERVISORS INITIALS : RPF NOTE : K = LESS THAN VALUE

PC0403 PH-LABORATORY	UNITS : 7.5	PO0530 SOLIDS/TOT.SUS.	MG/L : 38
PC0556 OIL/GRAVIMETRIC	MG/L : 1	PO1045 IRON/TOTAL	UG/L : 14686

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : B717127
SAMPLING POINT DESC. : PFIZER WELL 12

SUBMITTING SOURCE # : SITE # :
DATE COLLECTED : 871021 TIME COLLECTED : 1010 SAMPLING PROGRAM : IN

COLLECTED BY : JNM DELIVERED BY : UPS

COMMENTS :
FUNDING CODE : WPO6 AGENCY ROUTING : CV UNIT CODE :
SAM TYPE CODE : CLGW SAMPLE PURPOSE CODE : X REPORTING INDICATOR : B

DATE RECEIVED : 871022 TIME RECEIVED : 1100 RECEIVED BY : MAD
LAB OBSERVATIONS : TRIP BL SAM# : SS/10/
SUPERVISORS INITIALS : RPF NOTE : K = LESS THAN VALUE

P00403 PH-LABORATORY UNITS : 7.4 P00530 SOLIDS,TCT.SUS. MG/L : 34
P01045 IRON,TOTAL UG/L : 13092

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : 8717128

SAMPLING POINT DESC. : PFIZER WELL 14

SUBMITTING SOURCE # :

SITE # :

DATE COLLECTED : 871021

TIME COLLECTED : 1020

SAMPLING PROGRAM : IN

COLLECTED BY : JNM

DELIVERED BY : UPS

COMMENTS :

FUNDING CODE : WPO6

AGENCY ROUTING : CV

UNIT CODE :

SAM TYPE CODE : CLGW

SAMPLE PURPOSE CODE : X

REPORTING INDICATOR : B

DATE RECEIVED : 871022

TIME RECEIVED : 1100

RECEIVED BY : MAD

LAB OBSERVATIONS :

TRIP BL SAM# : SS/10/

SUPERVISORS INITIALS : RPF

NOTE : K = LESS THAN VALUE

P00403 PH-LABORATORY

UNITS : 7.4

P00530 SOLIDS/TOT.SUS.

MG/L : 52

P01045 IRON/TOTAL

UG/L : 17266

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : 8717125
SAMPLING POINT DESC. : PFIZER INC

SUBMITTING SOURCE # : JNG 16302 SITE # :
DATE COLLECTED : 871019 TIME COLLECTED : 0945 SAMPLING PROGRAM : IN

COLLECTED BY : JNM DELIVERED BY : UPS

COMMENTS :

FUNDING CODE : WPD6 AGENCY ROUTING : CV UNIT CODE :
SAM TYPE CODE : CLGW SAMPLE PURPOSE CODE : X REPORTING INDICATOR : B

DATE RECEIVED : 871022 TIME RECEIVED : 1100 RECEIVED BY : MAD
LAB OBSERVATIONS : TRIP BL SAM# : SS/10/
SUPERVISORS INITIALS : RPF NOTE : K = LESS THAN VALUE

P00403 PH-LABORATORY UNITS : 7.6 P00530 SOLIDS/TOT.SUS. MG/L : 46
P01045 IRON/TOTAL UG/L : 14210

RECEIVED
Compliance Assurance Section
FEB 8 2 1988
Environmental Protection Agency
STATE OF ILLINOIS



United States Environmental Protection Agency
Washington, D. C. 20460

NPDES Compliance Inspection Report

Form Approved
OMB No 2040-0003
Approval Expires 7-31-85

Section A: National Data System Coding

Transaction Code: N 25 3IL003870911 1286041517 yr/mo/day Inspection Type: 18C Inspector: 195 Fac Type: 2d2

Remarks

PERMIT BEING MODIFIED

Reserved: 67 69 Facility Evaluation Rating: 7d4 BI: 71N OA: 72N Reserved: 73 74 75 80

Section B: Facility Data

Name and Location of Facility Inspected: Pfizer, Inc
2001 Lynch Ave
East St Louis IL 62201
Entry Time: ☒ AM ☐ PM Permit Effective Date: 5-31-84
Exit Time/Date: Permit Expiration Date: 4-15-89
Name(s) of On-Site Representative(s): Jeff Carlton Title(s): Safety/Envir Engineer Phone No(s): 618-271-4700
Name, Address of Responsible Official: Roger Rader Title: Plant Manager
Phone No.: Same Contacted: ☐ Yes ☒ No

Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

<u>S</u>	Permit	<u>S</u>	Flow Measurement	<u>N/A</u>	Pretreatment	<u>S</u>	Operations & Maintenance
<u>M</u>	Records/Reports	<u>S</u>	Laboratory	<u>N/A</u>	Compliance Schedules	<u>N/A</u>	Sludge Disposal
<u>S</u>	Facility Site Review	<u>S</u>	Effluent/Receiving Waters	<u>S</u>	Self-Monitoring Program		Other:

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

RECEIVED
Compliance Assurance Section
JUN 27 1986
Environmental Protection Agency
STATE OF ILLINOIS

Name(s) and Signature(s) of Inspector(s): J.N. Mahlandt, PE Agency/Office/Telephone: IEPA Region 6 618-345-6220 Date: 6-26-86

Signature of Reviewer: Agency/Office: Date:

Regulatory Office Use Only

Action Taken: Date: Compliance Status: ☐ Noncompliance ☐ Compliance

PFIZER, INC. COOLING WATER
Compliance Sampling Inspection

Date: April 15, 1986

Interviewed: Mr. Jeff Carlton, Environmental Engineer

RECEIVED
Compliance Assurance Section
JUN 27 1986
Environmental Protection Agency
STATE OF ILLINOIS

FINDINGS

Permit #IL0038709 covers the discharge of approximately 2.2 mgd (1540 gpm) of non-contact cooling water. The source of this water is wells located toward the rear of the plant property. Three wells are involved and these are noted as #12, #14, and #15. The capacities are 500, 1000, and 1550 gpm, respectively.

This water is distributed to the Yellow and the Kroma buildings and then returned through various collection tanks and pumps to the main collection tank. Conductivity probes are also provided in this collection loop. According to Mr. Carlton, one probe is presently inoperable. A new unit was ordered, however, the wrong one was sent and has been returned. He expects the correct one to be delivered and installed within the next two to three weeks. All other equipment was functioning properly.

During the inspection only the #15 well was in operation. According to Mr. Carlton, the other two will not supply the required water at this time. It is the #15 well, which for some reason contains a higher iron concentration, that has apparently caused a routine violation of the permit discharge limits. Attached are copies of laboratory report sheets B605424 and B605425. As can be seen, the iron is not being picked up from the cooling process.

Pfizer petitioned the Pollution Control Board for a variance to cover the iron and subsequent total suspended solids excursions. The variance, PCB 85-107, was granted on March 14, 1986 and allows the discharge concentrations to be 34 mg/l for Fe and 98 mg/l for TSS until July 31, 1987. Based on these limits, the inspection sample results are in compliance. The NPDES Permit is presently being modified to incorporate the variance limits and schedules.

RECORDS & REPORTS

Samples are collected by company personnel and analyzed by contract laboratory. Laclede was being used, however, they recently closed and Environmental Analysis is currently doing the work. Analysis records are maintained by Mr. Carlton and the monthly report prepared.

Discharge monitoring reports are routinely received in a timely manner.

RECOMMENDATIONS

All equipment, except the one probe which is in the process of being replaced, was in service and functioning properly. No recommendations are therefore necessary. Further study and reporting requirements are dictated by the variance.



J. N. Mahlandt, P.E.

JNM:cas
attachments

cc: DWFC - Collinsville
cc: DWFC/CAS - Mike Severns

WASTE TREATMENT WORKS EFFLUENT SAMPLING FORM

SAMPLE COLLECTED BY <i>M. J. Shultz</i>		LOCATION OF SAMPLING POINT <i>Pittman, Inc</i>									
BASIN <i>10-1000-1</i>		SUB-BASIN (IF NONE ENTER "DIRECT")		TRIBUTARY		MINOR TRIBUTARY					
SEND ORIGINAL OF RESULTS TO: <i>Champaign</i>		SUB-BASIN OFFICE		<input type="checkbox"/> PERFORMANCE MEASUREMENT SECTION, SPRINGFIELD		SEND COPY OF EDP SERVICES RESULTS TO: <input checked="" type="checkbox"/> SECTION, SPRINGFIELD					
CARD COL. 1 1		CARD NO. 1		CARD COL. 2 2		CARD NO. 2		CARD COL. 3 3		CARD NO. 3	
2-1 <i>ING</i>		BASIN CODE		8-7 <i>07</i>		PLANT OR STATION NO.		8-10 <i>163</i>		FIPS COUNTY CODE (USE ONLY FOR PLANTS)	
11-17 <i>5000424</i>		LAB ID NO.		11-17 <i>5000424</i>		LAB ID NO.		11-17 <i>5000424</i>		LAB ID NO.	
18 <i>E</i>		SAMPLE TYPE CODE (SEE LIST BELOW)		18 <i>E</i>		SAMPLE TYPE CODE		18 <i>E</i>		SAMPLE TYPE CODE	
19-20 <i>85</i>		YEAR		19-20 <i>85</i>		YEAR		19-20 <i>85</i>		YEAR	
21-22 <i>04</i>		MONTH		21-22 <i>04</i>		MONTH		21-22 <i>04</i>		MONTH	
23-24 <i>15</i>		DAY		23-24 <i>15</i>		DAY		23-24 <i>15</i>		DAY	
25-26 <i>10</i>		HOUR (NEAREST)		25-26 <i>10</i>		HOUR (NEAREST)		25-26 <i>10</i>		HOUR (NEAREST)	
27 <i>E</i>		TIME OF DAY (A,P,N,I)		27 <i>E</i>		TIME OF DAY (A,P,N,I)		27 <i>E</i>		TIME OF DAY (A,P,N,I)	
28-30		WATER TEMPERATURE (DEG. F.)		28-30		WATER TEMPERATURE (DEG. F.)		28-30		WATER TEMPERATURE (DEG. F.)	
31-32		FIELD D.O.		31-32		FIELD D.O.		31-32		FIELD D.O.	
PH (UNITS)		<i>7.5</i>		PH (UNITS)		<i>7.5</i>		PH (UNITS)		<i>7.5</i>	
TOTAL PHOSPHORUS		<i>34-38</i>		TOTAL PHOSPHORUS		<i>34-38</i>		TOTAL PHOSPHORUS		<i>34-38</i>	
AVG. BOD		<i>41-44</i>		AVG. BOD		<i>41-44</i>		AVG. BOD		<i>41-44</i>	
C.O.D.		<i>45-48</i>		C.O.D.		<i>45-48</i>		C.O.D.		<i>45-48</i>	
PHENOLS		<i>49-52</i>		PHENOLS		<i>49-52</i>		PHENOLS		<i>49-52</i>	
AMMONIA N		<i>53-56</i>		AMMONIA N		<i>53-56</i>		AMMONIA N		<i>53-56</i>	
NITRATE + NITRITE AS N		<i>57-60</i>		NITRATE + NITRITE AS N		<i>57-60</i>		NITRATE + NITRITE AS N		<i>57-60</i>	
ORGANIC N		<i>61-64</i>		ORGANIC N		<i>61-64</i>		ORGANIC N		<i>61-64</i>	
TOTAL N		<i>65-68</i>		TOTAL N		<i>65-68</i>		TOTAL N		<i>65-68</i>	
T.D.S./E.C.		<i>69-72</i>		T.D.S./E.C.		<i>69-72</i>		T.D.S./E.C.		<i>69-72</i>	
TOTAL SUSP. SOLIDS		<i>73-76</i>		TOTAL SUSP. SOLIDS		<i>73-76</i>		TOTAL SUSP. SOLIDS		<i>73-76</i>	
FECAL COL. (NO./100ML)		<i>77-80</i>		FECAL COL. (NO./100ML)		<i>77-80</i>		FECAL COL. (NO./100ML)		<i>77-80</i>	
ARSENIC		<i>19-22</i>		ARSENIC		<i>19-22</i>		ARSENIC		<i>19-22</i>	
BARIUM		<i>23-26</i>		BARIUM		<i>23-26</i>		BARIUM		<i>23-26</i>	
BORON		<i>27-30</i>		BORON		<i>27-30</i>		BORON		<i>27-30</i>	
CADMIUM		<i>31-34</i>		CADMIUM		<i>31-34</i>		CADMIUM		<i>31-34</i>	
CHROMIUM (HEX)		<i>35-38</i>		CHROMIUM (HEX)		<i>35-38</i>		CHROMIUM (HEX)		<i>35-38</i>	
CHROMIUM (TRI)		<i>39-42</i>		CHROMIUM (TRI)		<i>39-42</i>		CHROMIUM (TRI)		<i>39-42</i>	
CHROMIUM (TOTAL)		<i>43-46</i>		CHROMIUM (TOTAL)		<i>43-46</i>		CHROMIUM (TOTAL)		<i>43-46</i>	
COPPER		<i>47-50</i>		COPPER		<i>47-50</i>		COPPER		<i>47-50</i>	
CYANIDE		<i>51-54</i>		CYANIDE		<i>51-54</i>		CYANIDE		<i>51-54</i>	
IRON (TOTAL)		<i>55-58</i>		IRON (TOTAL)		<i>55-58</i>		IRON (TOTAL)		<i>55-58</i>	
IRON (DISSOLVED)		<i>59-62</i>		IRON (DISSOLVED)		<i>59-62</i>		IRON (DISSOLVED)		<i>59-62</i>	
LEAD		<i>63-66</i>		LEAD		<i>63-66</i>		LEAD		<i>63-66</i>	
MANGANESE		<i>67-70</i>		MANGANESE		<i>67-70</i>		MANGANESE		<i>67-70</i>	
MERCURY (MICROGM/L)		<i>71-74</i>		MERCURY (MICROGM/L)		<i>71-74</i>		MERCURY (MICROGM/L)		<i>71-74</i>	
NICKEL		<i>75-78</i>		NICKEL		<i>75-78</i>		NICKEL		<i>75-78</i>	
SELENIUM		<i>79-82</i>		SELENIUM		<i>79-82</i>		SELENIUM		<i>79-82</i>	
SILVER		<i>83-86</i>		SILVER		<i>83-86</i>		SILVER		<i>83-86</i>	
ZINC		<i>87-90</i>		ZINC		<i>87-90</i>		ZINC		<i>87-90</i>	
PLANKTON (NO./ML)		<i>91-94</i>		PLANKTON (NO./ML)		<i>91-94</i>		PLANKTON (NO./ML)		<i>91-94</i>	
FLUORIDE		<i>95-98</i>		FLUORIDE		<i>95-98</i>		FLUORIDE		<i>95-98</i>	
CHLORIDE		<i>99-102</i>		CHLORIDE		<i>99-102</i>		CHLORIDE		<i>99-102</i>	
SULFATE AS SO4		<i>103-106</i>		SULFATE AS SO4		<i>103-106</i>		SULFATE AS SO4		<i>103-106</i>	
TOTAL SULFUR AS S		<i>107-110</i>		TOTAL SULFUR AS S		<i>107-110</i>		TOTAL SULFUR AS S		<i>107-110</i>	
OIL		<i>111-114</i>		OIL		<i>111-114</i>		OIL		<i>111-114</i>	
M.B.A.S.		<i>115-118</i>		M.B.A.S.		<i>115-118</i>		M.B.A.S.		<i>115-118</i>	
CARBON CHLOROFORM EXTRACT		<i>119-122</i>		CARBON CHLOROFORM EXTRACT		<i>119-122</i>		CARBON CHLOROFORM EXTRACT		<i>119-122</i>	
TURBIDITY (UNITS)		<i>123-126</i>		TURBIDITY (UNITS)		<i>123-126</i>		TURBIDITY (UNITS)		<i>123-126</i>	
RESIDUE ON EVAPORATION		<i>127-130</i>		RESIDUE ON EVAPORATION		<i>127-130</i>		RESIDUE ON EVAPORATION		<i>127-130</i>	
VOLATILE SUSP. SOLIDS		<i>131-134</i>		VOLATILE SUSP. SOLIDS		<i>131-134</i>		VOLATILE SUSP. SOLIDS		<i>131-134</i>	
COLOR (UNITS)		<i>135-138</i>		COLOR (UNITS)		<i>135-138</i>		COLOR (UNITS)		<i>135-138</i>	
HARDNESS		<i>139-142</i>		HARDNESS		<i>139-142</i>		HARDNESS		<i>139-142</i>	
ALKALINITY		<i>143-146</i>		ALKALINITY		<i>143-146</i>		ALKALINITY		<i>143-146</i>	
TOTAL ACIDITY		<i>147-150</i>		TOTAL ACIDITY		<i>147-150</i>		TOTAL ACIDITY		<i>147-150</i>	
FREE RECEIVED				FREE RECEIVED				FREE RECEIVED			
Environmental Protection Agency				Environmental Protection Agency				Environmental Protection Agency			
OTHER TESTS REQUIRED				OTHER TESTS REQUIRED				OTHER TESTS REQUIRED			
RESULTS				RESULTS				RESULTS			
MAY 27 1986				MAY 27 1986				MAY 27 1986			
ALL RESULTS EXPRESSED AS MG/L EXCEPT WHERE OTHERWISE STATED.				ALL RESULTS EXPRESSED AS MG/L EXCEPT WHERE OTHERWISE STATED.				ALL RESULTS EXPRESSED AS MG/L EXCEPT WHERE OTHERWISE STATED.			
PHYSICAL OBSERVATIONS & COMMENTS (ABNORMAL COLOR, OIL, SLUDGE, TURBIDITY, WEATHER, LOCATION OF SAMPLING POINT, etc.)				PHYSICAL OBSERVATIONS & COMMENTS (ABNORMAL COLOR, OIL, SLUDGE, TURBIDITY, WEATHER, LOCATION OF SAMPLING POINT, etc.)				PHYSICAL OBSERVATIONS & COMMENTS (ABNORMAL COLOR, OIL, SLUDGE, TURBIDITY, WEATHER, LOCATION OF SAMPLING POINT, etc.)			
Clear & collection - no oxidation started shortly thereafter				Clear & collection - no oxidation started shortly thereafter				Clear & collection - no oxidation started shortly thereafter			

SAMPLE TYPE CODES:

A = DOMESTIC WASTE ONLY
E = INDUSTRIAL WASTE ONLY
I = MIXED DOMESTIC & INDUSTRIAL WASTE
S = STREAM, LAKE, OR RECEIVING WATER QUALITY
T = MINE DRAINAGE OR WASTE
X = OTHER OR TYPE UNKNOWN

SIGN BELOW FOR EFFLUENT SAMPLE

TRANSPORTED BY *M. J. Shultz*

RECEIVED BY

TIME

TRANSPORTED BY

RECEIVED BY

TIME

FOR LABORATORY USE ONLY

SAMPLE RECEIVED BY *nd*

DATE REC'D

APR 17 1986

TIME REC'D

DATE ANALYSES COMPLETED

DATE RESULTS FORWARDED

MAY 22 1986

TOTAL TESTS REQUESTED

TESTS RUN

LAB SECTION *CHAMPAIGN*SUPERVISOR *[Signature]*

SPECIAL ANALYSIS FORM

Sample # 4-1

Time Collected 10:10 ASub-Basin CollinsvilleDate Collected 4-15-86Collector Mahlandt

Facility Name: _____ Facility Number: _____

File Town E St LouisStream Name(s) Power Inc

Stream Code: _____

Source of Sample: (Exact Location)

sample tap on well # 15

Physical Observations, Remarks:

water clear & sampling - Fe oxidation
started shortly thereafter

Flow	Field Dissolved Oxygen	Field pH	Field Temp.
_____ Arsenic	_____ Coliform/100ml	_____ BOD	
_____ Barium	_____ Fecal Coliform	_____ COD	
	100 ml		
_____ Beryllium	_____ Fecal Strep	_____ TS/EC	
	100 ml		
_____ Cadmium	_____ Algae (Total) /ml	<u>68</u> <u>Susp. Solids</u>	
_____ Copper	_____ Ammonia (N)	_____ Vol. Susp. Solids	
_____ Chromium (tri)	_____ Organic Nitrogen (N)	<u>7.3</u> <u>pH (units)</u>	
_____ Chromium (hex)	_____ Nitrate + Nitrite (N)	_____ Turbidity (JTU)	
<u>17</u> <u>Iron (Total)</u>	_____ Phosphorus (P)	_____ Hardness	
_____ Iron (Dissolved)	_____ Chloride	_____ Alkalinity	
_____ Lead	_____ Fluoride	_____ Total Acidity	
_____ Manganese	_____ Sulfate	_____ Free Acidity	
_____ Mercury (ppb)	_____ Cyanide	_____ Oil	
_____ Nickel	_____ MBAS	_____ Other (Specify)	
_____ Selenium	_____ Phenol (ppb)		
_____ Silver			
_____ Zinc			

Results in mg/l unless
otherwise noted.

100% Recycled Paper

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MAY 27 1986

Division of Water Pollution Control
Field Operations Section - Reg. VITransported by: Mahlandt

Received by: _____

Transported by: _____

Received by: _____

FOR LAB USE ONLY

Lab Number: B005425 Rec'd by: pdDate sample rec'd: 4-17-1986 Time: 11A

Date analysis completed: _____

Date results forwarded: MAY 22 1986

Total Tests requested: _____ Tests run: _____

Lab Section: STAMPAIGN Supervisor: [Signature]



NPDES Compliance Inspection Report

Section A: National Data System Coding

Transaction Code	NPDES	yr/mo/day	Inspection Type	Inspector	Fac Type
1N 25	314003870911	1286120317	18C	19S	2d2
Remarks					
21					
66					
Reserved	Facility Evaluation Rating	BI	QA	Reserved	
67 69	7d4	71M	72M	73 74 75 80	

Section B: Facility Data

Name and Location of Facility Inspected	Entry Time <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	Permit Effective Date
Pfizer Pigments, Inc.		5-31-84
2001 Lynch Ave.	Exit Time/Date	Permit Expiration Date
East St Louis, IL 62201		4-15-89
Name(s) of On-Site Representative(s)	Title(s)	Phone No(s)
Jeff Carlton	Safety/Envir. Engineer	618-271-4700
Name, Address of Responsible Official	Title	
Roger Rader	Plant Manager	
	Phone No.	Contacted <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	Same	

Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

S	Permit	S	Flow Measurement	N/A	Pretreatment		Operations & Maintenance
S	Records/Reports	S	Laboratory	M	Compliance Schedules	N/A	Sludge Disposal
S	Facility Site Review	S	Effluent/Receiving Waters	S	Self-Monitoring Program		Other

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

See attached notes

Name(s) and Signature(s) of Inspector(s)	Agency/Office/Telephone	Date
J.N. Mahlandt, PE	IEPA Region 6 618-345-6220	3-3-87
Signature of Reviewer	Agency/Office	Date
Regulatory Office Use Only		
Action Taken	Date	Compliance Status
		<input type="checkbox"/> Noncompliance
		<input type="checkbox"/> Compliance

PFIZER, INC. COOLING WATER
COMPLIANCE SAMPLING INSPECTION

Date: December 3, 1986

Interviewed: Mr. Jeff Carlton, Environmental Engineer

NPDES Permit: IL0038709 (modified 7-21-86)

Basin Code: JNG-02-163

FINDINGS

This permit covers the discharge of approximately 2.2 mgd (1540 gpm) of non-contact cooling water to the storm sewer system tributary to Schoenberger Creek. Pfizer also discharges to the East St. Louis collection system via three sewer connections along Lynch Avenue. Pre-treatment is provided for process wastewater and consists of neutralization and sedimentation. This system was in operation, however, it was not viewed in detail since it is not part of the subject permit.

The source of the cooling water is three wells located toward the rear of the plant property. These are noted as #12, #14, and #15 with capacities of approximately 500, 1000, and 1550 gpm, respectively. No other water source is included in the cooling loop. During the visit only well #15 was in service.

This water is distributed to the Yellow and the Kroma buildings and then returned through various collection tanks and pumps to the main collection tank. Conductivity probes are also provided at various points in this loop. Mr. Carlton commented that the corporate appropriation has been made and the Magnetics building is to be added to the system. He felt it would be connected this spring or early summer.

Following the final collection tank, the returned flow passes through a Parshall flume and is discharged to the storm sewer. It is at the flume that the required grab sampling is done. During the inspection the flow was clear, however, shortly after collection the oxidation from the ferrous to the ferric state became evident. Attached is a copy of laboratory report sheet B619556, which indicates compliance with the current permit limits. The flow rate was 1400 gpm.

RECORDS & REPORTS

Samples are collected at the prescribed intervals by company personnel and analyzed by contract laboratory. Environmental Analysis is presently being used. The results of QA-006 indicate all parameter values to be within the acceptable range. Analysis records are maintained by Mr. Carlton and the monthly discharge monitoring report is received in a timely manner.

Notices of non-compliance have been submitted when required. With the present permit limits, these have been virtually unnecessary. Condition #6 of PCB 85-107 requires the company to file progress reports every six months. The two 1986 reports have also been received in a timely manner.

RECOMMENDATIONS

The variance, and its incorporation into the NPDES permit, expires on July 31, 1987. At that time the effluent limits revert back to TSS - 37 and Fe - 20. It is therefore necessary for Pfizer to finalize what treatment will be installed, discontinue the permitted discharge, or request an extension of the variance.

J. N. Mahlandt
J. N. Mahlandt, P.E.

JNM:cas
Attachment

cc: DWPC - Collinsville
cc: DWPC/CAS - Mike Severns

ENVIRONMENTAL PROTECTION AGENCY

Sample # 52

DIVISION OF WATER POLLUTION CONTROL

WASTE TREATMENT WORKS EFFLUENT SAMPLING FORM

SAMPLE COLLECTED BY <i>Mahlant</i>		LOCATION OF SAMPLING POINT <i>Pfizer Cooling Water Discharge</i>	
BASIN <i>Mississippi</i>		SUB-BASIN (IF NONE ENTER "DIRECT")	
TRIBUTARY		MINOR TRIBUTARY	
SEND ORIGINAL OF RESULTS TO: <i>Collinsville</i>		SUB-BASIN OFFICE <input type="checkbox"/> PERFORMANCE MEASUREMENT SECTION, SPRINGFIELD	
SEND COPY OF EOP SERVICES RESULTS TO: <input checked="" type="checkbox"/> SECTION, SPRINGFIELD			
CARD COL. 1	CARD NO. 1	CARD COL. 2	CARD NO. 2
CARD COL. 3	CARD NO. 3	CARD COL. 4	CARD NO. 4
1-3 <i>ING</i>	BASIN CODE	6-7 <i>02</i>	PLANT OR STATION NO.
8-10 <i>163</i>	PIPE COUNTY CODE (USE ONLY FOR PLANTS)	11-17 <i>B619556</i>	LAB ID NO.
18 <i>E</i>	SAMPLE TYPE CODE (SEE LIST BELOW)	18 <i>E</i>	SAMPLE TYPE CODE
19-20 <i>96</i>	YEAR	19-22	PLANKTON (NO./ML)
21-22 <i>12</i>	MONTH	23-25	FLUORIDE
23-24 <i>03</i>	DAY	26-28	CHLORIDE
25-26 <i>02</i>	HOUR (NEAREST)	29-32	SULFATE AS SO ₄
27 <i>P</i>	TIME OF DAY (A.P.M.)	33-36	TOTAL SULFUR AS S
28-30	WATER TEMPERATURE (DEG. F.)	37-42	OIL
31-33	FIELD O.O.	43-46	M.B.A.S.
34-36	PH (UNITS)	47-50	CARBON CHLOROFORM EXTRACT
37-40	TOTAL PHOSPHORUS	51-54	TURBIDITY (UNITS)
41-44	AVG. BOD	55-58	RESIDUE ON EVAPORATION
45-48	C.O.D.	59-62	VOLATILE SUSP. SOLIDS
49-52	PHENOLS	63-65	COLOR (UNITS)
53-59	FECAI COL (NO./100ML)	66-68	HARDNESS
60-63	AMMONIA N	69-71	ALKALINITY
64-66	NITRATE + NITRITE AS N	72-74	TOTAL ACIDITY
67-69	ORGANIC N	75-77	FREE ACID
70-72	TOTAL N		OTHER TESTS REQUIRED RESULTS
73-76	T.D.S./E.C.		
77-80	TOTAL SUSP. SOLIDS		

ALL RESULTS EXPRESSED AS MG/L EXCEPT WHERE OTHERWISE STATED.

PHYSICAL OBSERVATIONS & COMMENTS (ABNORMAL COLOR, ODOR, FLOATING MATTER, OIL, SLUDGE, TURBIDITY, WEATHER), LOCATION OF SAMPLING POINT:

gray samples @ 1:50 pm
clear @ 1400 gpm

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SAMPLE TYPE CODES:

- A = DOMESTIC WASTE ONLY
 E = INDUSTRIAL WASTE ONLY
 I = MIXED DOMESTIC & INDUSTRIAL WASTE
 S = STREAM, LAKE, OR RECEIVING WATER QUALITY
 T = MINE DRAINAGE OR WASTE
 X = OTHER OR TYPE UNKNOWN

SIGN BELOW FOR EFFLUENT SAMPLE

TRANSPORTED BY *Mahlant*

RECEIVED BY _____ TIME _____

TRANSPORTED BY _____

RECEIVED BY _____ TIME _____

FOR LABORATORY USE ONLY

SAMPLE RECEIVED BY

DATE REC'D

DEC 04 1986

TIME REC'D

DATE ANALYSES COMPLETED

DATE RESULTS FORWARDED

JAN 12 1987

TOTAL TESTS REQUESTED

TESTS RUN

LAB SECTION

CHAMPAGNE

SUPERVISOR



United States Environmental Protection Agency
Washington, D. C. 20460

NPDES Compliance Inspection Report

Form Approved
OMB No. 2040-0003
Approval Expires 7-31-85

Section A: National Data System Coding

Transaction Code: 1M 25 NPDES 3IL 003 0709 11 12 07 02 04 17 Inspection Type: 18R Inspector: 195 Fac Type: 202

Remarks

Reserved: 67 69 Facility Evaluation Rating: 70 BI: 71M OA: 72M Reserved: 73 74 75 80

Section B: Facility Data

Name and Location of Facility Inspected: Pfizer Pigments, Inc
2001 Lynch Ave
East St Louis 62201
Entry Time: ☒ AM ☐ PM Permit Effective Date: 5-31-84
Exit Time/Date: Permit Expiration Date: 4-15-89
Name(s) of On-Site Representative(s): Jeff Carlton Title(s): Safety/Envir. Engineer Phone No(s): 618-271-4700
Name, Address of Responsible Official: Roger Radier Title: Plant Manager
Phone No.: same Contacted: ☒ Yes ☐ No

Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

Permit	Flow Measurement	Pretreatment	Operations & Maintenance
Records/Reports	Laboratory	Compliance Schedules	Sludge Disposal
Facility Site Review	Effluent/Receiving Waters	Self-Monitoring Program	Other: <u>spill</u>

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

Containment

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Environmental Protection Agency
STATE OF ILLINOIS

Name(s) and Signature(s) of Inspector(s): <u>J.D. Mehlhardt, PE</u>	Agency/Office/Telephone: <u>IEPA Region 6 618-345-6220</u>	Date: <u>2-5-87</u>
Signature of Reviewer: <u>Robert L. Schaeffer, P.E.</u>	Agency/Office: <u>IEPA/Quinsville 618-345-6000</u>	Date: <u>2/19/87</u>
Regulatory Office Use Only		
Action Taken:	Date:	Compliance Status: <input type="checkbox"/> Noncompliance <input type="checkbox"/> Compliance

M E M O R A N D U M

ST. CLAIR COUNTY - Pfizer Pigments, Inc.
Acid Line Rupture
American Bottoms WWTP

TO: Division of Water Pollution Control, FOS & Records Unit

FROM: J. N. Mahlandt, P.E. - Region VI, Collinsville

DATE: February 4, 1987

INTERVIEWED: Mr. Jeff Carlton
Mr. Roger Rader

On the above date, Tom Powell, ERU, and the writer met with Mr. Carlton to view the location of the January 26th sulfuric acid spill. The matter was later briefly discussed with Mr. Rader. Mr. Carlton discussed this spill with the writer on January 29th and at that time it was suggested that a written report be prepared. Attached is a copy of that report.

The acid discharge to the southeast in-plant sewer reportedly occurred during the transfer of acid from the #620 storage tank to the #70 reactor unit tank. Although a leak in the 400 gpm transfer pump discharge line contributed to the spill, the majority was lost through a rupture of the suction line. This is 4 in. schedule 80 PVC line. The broken pipe section was viewed and it contained a three directional split of approximately 6 to 8 inches. Mr. Carlton stated that sometime prior to the break, workmen had thawed this line using a torch. He felt that this may have weakened the line and led to the incident. In viewing the pipe system, the writer found another length which apparently had also been heated. This was pointed out and suggested for replacement. Mr. Carlton agreed.

A pH monitor system is located on the southeast sewer prior to discharge to the East St. Louis system. A small pump is located in the sewer with the discharge to a sample box. Composite samples and continuous pH readings are taken at this box. According to Mr. Carlton, the pH meter and probe are checked and calibrated weekly. Reportedly this sampling line and box were frozen during the event, so no alarm was sounded. A heater is now present in the small metal building housing this equipment.

The spill occurred at approximately 6:00 PM on the 26th and was not promptly reported due to an apparent failure of the company's internal communication. According to Mr. Rader, this is to be re-emphasized at the upcoming supervisor's meeting. It was also noted during the inspection that virtually anything spilled outside will reach the combined sewer inlet grating. No catchment sumps nor containment berms were noted

J. N. Mahlandt

JNM:cas/0021W
Attachments

cc: DWPC - Collinsville
cc: DWPC/CAS - Mike Severns
cc: OEM - Collinsville



PFIZER PIGMENTS INC.

A subsidiary of Pfizer Inc.
2001 Lynch Avenue, East St. Louis, Ill. 62205

February 2, 1987

Mr. George Schillinger, Plant Manager
American Bottoms Regional Wastewater Treatment Plant
2897 Falling Springs Road
Sauget, IL 62206

Dear Mr. Schillinger:

During the evening of January 26, Pfizer Pigments Inc. released approximately 4000 gallons of 47% sulfuric acid to the East St. Louis City Sewer System. Due to a supervisor's error, the release was not reported to plant management until after your phone call of January 28. The details of the incident are as follows:

An operator was transferring 47% sulfuric acid from a storage tank to a reactor when the flow to the reactor suddenly stopped. The operator traced the line back to the acid pump, noticed that the feed hose to the pump had been leaking, and shut the pump off. This acid had flowed to a trench leading directly to the Southeast sewer system. The operator and his supervisor then went back to the storage tank and saw that the discharge line from the tank to the pump had ruptured. The acid from the ruptured line traveled across an asphalted area to a manhole and then into the SE sewer. They shut the discharge valve from the tank to stop the flow, then spread lime around the area to neutralize the acid. Lime was also added directly to the sewer to neutralize any acid that had already reached the sewer system.

The supervisor decided that he did not need to contact anyone since he believed that he had neutralized the spill. Therefore, neither his department manager nor I were notified of the spill. However, the supervisor failed to consider either the amount that had leaked from the pump or the total amount that had spilled through the ruptured line.

At the time of the incident, the Southeast Sewer monitoring point which records pH of the effluent leaving the plant was frozen due to the cold weather. Consequently, no alarm was noted or record retained of any sub-standard pH material leaving the plant. An alarm would have triggered additional actions to neutralize the spill.

Environmental Protection Agency
STATE OF ILLINOIS

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George Schillinger
February 2, 1987
Page 2

After your call to our Mr. Jeff Carlton on January 28, we learned that we had had a major acid spill. Mr. Carlton gave you this information on the afternoon of January 28. At this time, he also attempted to contact Nick Mahlandt from the Collinsville office of the IEPA.

Mr. Mahlandt returned Mr. Carlton's call on January 29. He explained the incident to him at that time. Afterwards, he also contacted Mr. Ken Mensing (IEPA - Land Division - Collinsville) as well as the National Response Center and the Illinois Emergency Services Disaster Agency in Springfield, as suggested by Mr. Mahlandt and Mr. Mensing.

At this time, we have and are taking actions to prevent a recurrence of this incident.

Sincerely,

Roger E. Rader
Plant Manager

cc: Illinois EPA
Compliance Assurance Unit

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Environmental Protection Agency
STATE OF ILLINOIS

J. C. Carlton
BCC: W. E. McCoy